

SOLID PHASE NATIVE CHEMICAL LIGATION
OF UNPROTECTED OR N-TERMINAL CYSTEINE PROTECTED PEPTIDES
IN AQUEOUS SOLUTION

10 ABSTRACT OF THE DISCLOSURE

11 The present invention provides methods, apparatus and kits for synthesizing
12 assembled peptides and proteins on a solid phase with sequential ligation of three or more
13 unprotected peptide segments using chemoselective and mild ligation chemistries in aqueous
14 solution. Also provided are methods of monitoring solid phase sequential ligation reactions
15 using MALDI or electrospray ionization mass spectrometry of reaction products.

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